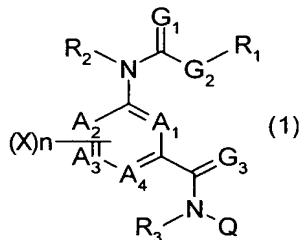


ABSTRACT

An object of the present invention is to provide insecticides having high effectiveness. The present invention provides 5 compounds represented by formula (1):



wherein A_1 , A_2 , A_3 , and A_4 independently represent a carbon atom, a nitrogen atom, or an oxidized nitrogen atom; R_1 represents a C1-C6 alkyl group which may be substituted, a phenyl group which may be substituted, or a heterocyclic group which may be substituted; R_2 and R_3 independently represent a hydrogen atom, a C1-C4 alkyl group which may be substituted, or a C1-C4 alkylcarbonyl group which may be substituted; G_1 , G_2 , and G_3 independently represent an oxygen atom or a sulfur atom; X s may be the same or different and 10 each represent a hydrogen atom, a halogen atom, a C1-C4 alkyl group which may be substituted, or an amino group which may be substituted; n represents an integer of 0 to 4; Q represents a phenyl group which may be substituted, a naphthyl group which may be substituted, a tetrahydronaphthyl group which may be substituted, or a heterocyclic group which may be substituted, insecticides containing the compounds as active ingredients, and a 15 method for producing the compounds.

The compounds represented by formula (1) exhibit an excellent preventive effect as insecticides and also exhibit an excellent

preventive effect when being combined with another insecticide, an acaricide, a nematocide, a fungicide, a herbicide, a plant growth regulator, or a biological pesticide.